WHAT IS CLAIMED IS:

1. A battery can for accommodating electrochemical materials therein, said battery can comprising:

an elongated and substantially cylindrical shell, said shell having a wall with a smooth outer surface, said wall having an inner surface; and a plurality of lands and grooves formed on said inner surface of said wall, said lands and grooves defining a substantially uniform and continuously repeating pattern on said inner surface.

- 2. The battery can according to claim 1, wherein:
 said lands and grooves extend longitudinally and for substantially an
 entire axial length of said battery can.
- 3. The battery can according to claim 1, wherein:
 said substantially uniform and continuously repeating pattern on said
 inner wall is a sinusoidal pattern in cross-section.
- 4. The battery can according to claim 1, wherein:
 said substantially uniform and continuously repeating pattern is one of a rectangular, a trapezoidal and a v-shaped pattern in cross-section.
- 5. The battery can according to claim 1, wherein:
 said grooves extend into said wall by an amount approximately equal
 to 25% of a cross-sectional thickness of said wall.
- 6. The battery can according to claim 1, wherein:

 no portion of an axial length of said shell is below approximately

 0.004 inches in cross-sectional thickness.
- 7. The battery can according to claim 3, wherein:

 a minimum radii of said lands of said sinusoidal pattern is

approximately equal to 0.005 inches.

8. The battery can according to claim 1, wherein:

said battery can is a AA-sized battery can; and approximately 100 to 150 of said grooves are defined on said inner surface.

9. The battery can according to claim 1, wherein:

said battery can is a AA-sized battery can; and approximately 120 of said grooves are defined on said inner surface.

10. A method of forming a battery can with lands and grooves on an inner surface area thereof, said method comprising the steps of:

providing a metallic disk;

drawing said disk into a substantially cylindrical can workpiece; repeatedly drawing said can workpiece until said can workpiece has a predetermined diameter; and

utilizing a shaped punch and an ironing die to define said lands and grooves in said inner surface area of said battery can.

11. The method of forming a battery can according to claim 10, said method further comprising the steps of:

utilizing said shaped punch and an ironing die to produce said lands and grooves having a substantially uniform and continuously repeating pattern.

12. The method of forming a battery can according to claim 10, said method further comprising the steps of:

producing said lands and grooves so that they extend longitudinally and for substantially an entire axial length of said battery can. 13. The method of forming a battery can according to claim 10, said method further comprising the steps of:

utilizing said shaped punch and ironing die to define said lands and grooves having a substantially uniform and continuously repeating sinusoidal pattern in cross-section.

14. The method of forming a battery can according to claim 10, said method further comprising the steps of:

utilizing said shaped punch and ironing die to define said lands and grooves having one of a rectangular, a trapezoidal and a v-shaped pattern in cross-section.

15. The method of forming a battery can according to claim 10, said method further comprising the steps of:

extending said lands and grooves into said housing by an amount approximately equal to 25% of a cross-sectional thickness of said housing.

16. The method of forming a battery can according to claim 10, said method further comprising the steps of:

ensuring that no portion of said housing is below approximately 0.004 inches in cross-sectional thickness.

17. The method of forming a battery can according to claim 13, said method further comprising the steps of:

ensuring that a minimum radii of said lands of said sinusoidal pattern is approximately equal to 0.005 inches.

18. The method of forming a battery can according to claim 10, said method further comprising the steps of:

sizing said battery can to be a AA-sized battery can; and defining approximately 100 to 150 of said grooves on said inner

surface area.

19. The method of forming a battery can according to claim 10, said method further comprising the steps of:

sizing said battery can to be a AA-sized battery can; and defining approximately 120 of said grooves on said inner surface area.

20. The method of forming a battery can according to claim 10, said method further comprising the steps of:

ironing said lands approximately 20%; and ironing said grooves approximately 40%.

21. A battery can for accommodating electrochemical materials therein, said battery can comprising:

an elongated and substantially prismatic shell, said shell having a wall with a smooth outer surface, said wall having an inner surface; and

a plurality of lands and grooves formed on said inner surface of said wall, said lands and grooves defining a substantially uniform and continuously repeating pattern on said inner surface.

22. The battery can according to claim 21, wherein:

said lands and grooves extend longitudinally and for substantially an entire axial length of said battery can.

23. The battery can according to claim 21, wherein:

said substantially uniform and continuously repeating pattern on said inner wall is a sinusoidal pattern in cross-section.

24. The battery can according to claim 21, wherein:

said substantially uniform and continuously repeating pattern is one of a rectangular, a trapezoidal and a v-shaped pattern in cross-section. 25. The battery can according to claim 21, wherein:

said grooves extend into said wall by an amount approximately equal to 25% of a cross-sectional thickness of said wall.

26. The battery can according to claim 21, wherein:

no portion of an axial length of said shell is below approximately 0.004 inches in cross-sectional thickness.

27. The battery can according to claim 23, wherein:

a minimum radii of said lands of said sinusoidal pattern is approximately equal to 0.005 inches.

28. A method of forming a battery can with lands and grooves on an inner surface area thereof, said method comprising the steps of:

providing a metallic disk;

drawing said disk into a substantially prismatic prismatic can workpiece;

repeatedly drawing said can workpiece until said can workpiece has a predetermined diameter; and

utilizing a shaped punch and an ironing die to define said lands and grooves in said inner surface area of said battery can.

29. The method of forming a battery can according to claim 28, said method further comprising the steps of:

utilizing said shaped punch and an ironing die to produce said lands and grooves having a substantially uniform and continuously repeating pattern.

30. The method of forming a battery can according to claim 28, said method further comprising the steps of:

producing said lands and grooves so that they extend longitudinally and for substantially an entire axial length of said battery can.

31. The method of forming a battery can according to claim 28, said method further comprising the steps of:

utilizing said shaped punch and ironing die to define said lands and grooves having a substantially uniform and continuously repeating sinusoidal pattern in cross-section.

32. The method of forming a battery can according to claim 28, said method further comprising the steps of:

utilizing said shaped punch and ironing die to define said lands and grooves having one of a rectangular, a trapezoidal and a v-shaped pattern in cross-section.

33. The method of forming a battery can according to claim 28, said method further comprising the steps of:

extending said lands and grooves into said housing by an amount approximately equal to 25% of a cross-sectional thickness of said housing.

34. The method of forming a battery can according to claim 28, said method further comprising the steps of:

ensuring that no portion of said housing is below approximately 0.004 inches in cross-sectional thickness.

35. The method of forming a battery can according to claim 31, said method further comprising the steps of:

ensuring that a minimum radii of said lands of said sinusoidal pattern is approximately equal to 0.005 inches.

36. The method of forming a battery can according to claim 28, said method

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further comprising the steps of:

ironing said lands approximately 20%; and ironing said grooves approximately 40%.